

YOUR
ENERGY
Your **RULES**

AT THIS "STAGE"
I WOULD LIKE MY
OWN POWER.

THANK YOU!



Tasol Hybrid Solar - 3.6 UNA



Your all in one solar power solution

- Easy to install (plug and play)
- Grid - tied, hybrid or off grid capability
- Built in MPPT charge controller
- Settings to charge and discharge batteries for optimal power options
- Can be connected to a back up generator for additional power options
- Software allows energy generation reports to be downloaded

PV

AC

DC

MPPT

Used with

- PV Panel array (tier 1 mono-/polycrystalline panels)
- 100Ah battery bank (for back up options)



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MODEL	3.6 UNA
RATED POWER	3000 W
PV INPUT (DC)	
Maximum DC Power	4500 W
Nominal DC Voltage	360 VDC
Maximum DC Voltage	500 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC
MPP Voltage Range	250 VDC ~ 450 VDC
Maximum Input Current	18 A
Isc PV (absolute maximum)	18 A
Max. inverter backfeed current to the array	0 A
GRID OUTPUT (AC)	
Nominal Output Voltage	208/220/230/240 VAC
Output Voltage Range	184 - 265 VAC
Output Frequency Range	47.5 ~ 51.5 Hz
Nominal Output Current	13 A*
Inrush Current	17 A
Maximum Output Fault Current	51 A
Maximum output Overcurrent Protection	51 A
Power Factor Range	0.9 lead ~ 0.9 lag
AC INPUT	
AC Start-up Voltage	120-140 VAC
Auto Restart Voltage	180 VAC
Acceptable Input Voltage Range	170 - 280 VAC
Nominal Frequency	50 Hz
AC Input Power	5100VA/5100W
Maximum AC Input Current	30 A
Inrush Input Current	30 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	208/220/230/240 VAC
Output Frequency	50Hz (auto sensing)
Output Waveform	Pure sine wave
Output Power	3000VA/3000W
Output Current	14.4A/13.6A/13A/12.5A
Efficiency (DC to AC)	92%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Battery Discharging Current	92 A
Maximum Charging Current	25A

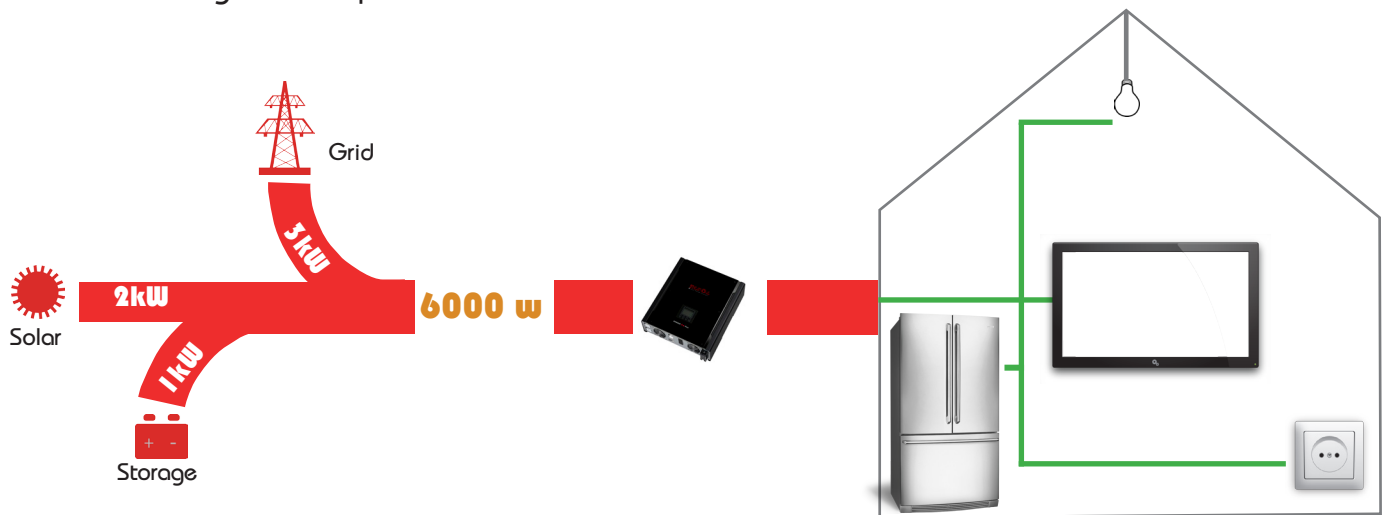
GENERAL

PHYSICAL

Dimension, D X W X H (mm)	480 x 438 x 117
Net Weight (kgs)	15.57
INTERACE	
Communication Port	RS-232/USB
Intelligent Slot	Optional SNMP, Modbus and AS-400 cards available
ENVIRONMENT	
Protective Class	I
Ingress Protection Rating	IP20
Humidity	0 ~ 90% RH (No condensing)
Operating Temperature	0 to 40°C
Altitude	0 ~ 1000 m**

*This figure may vary depending on different AC voltage.

**Power derating 1% every 100 m when altitude is over 1000m.



A perfect all-in-one power solution, with multiple power source coupling.

It is a smart inverter, prioritising solar power whilst charging batteries for alternative energy source and only use the grid power for the balance of the energy requirements. Using PV (photovoltaic), battery and grid readings, with a built-in MPPT controller, it optimises the performance of the system according to the required production and consumption needs of the house. During consumption peaks, it complements the solar power source with battery and public grid sources. The Hybrid 3.6 UNA is a 3k Plus inverter, allowing to couple grid-, solar- and battery power for a bigger output (up to 6kW) to the household for peak demand requirements.

This functionality guarantees constant power supply to the home, without having to switch between sources which often leads to micro-cuts of electricity supply and solves concerns for energy intermittence and fluctuation



Creating a sustainable future with solar energy.

How does the 3.6 UNN Hybrid Solar system work?



1) During the day : It first uses solar power whilst the sun is shining. Only additional power required is drawn from the grid. At the same time it assures that batteries are charged.



2) During the evening: It will discharge batteries to a certain capacity allowing you to benefit from the power generated during the day first, then switch over to the grid to draw power. This also ensures that battery life is protected.



3) During power outages : The battery bank will immediately supply power until depleted. Depending on the size of your system, you can have a minimum of 2.4kWh Peak back up power and a maximum of 7.2kWh Peak at a 50% discharge .Once the battery back-up is depleted and you have a generator connected it will switch over to that power source.

Choose your size

The inverter allows for additional panel string and a bigger battery bank, according to usage patterns and requirements.

The good thing is that you can start with the basic power requirements and later decide to up size your system

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Solar Academy of Sub Saharan Africa (PTY) Ltd.

T's & C's Apply